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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/806,162

03/23/2004

Hideyuki Nishida

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EXAMINER

MURALIDAR, RICHARD V

ART UNIT

PAPER NUMBER

2838

MAIL DATE

DELIVERY MODE

04/01/2009

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/806,162	Applicant(s) NISHIDA, HIDEYUKI	
	Examiner RICHARD V. MURALIDAR	Art Unit 2838	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 March 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 and 12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 and 12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 June 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Hall [U.S. 6034506].

With respect to claim 1 (Currently Amended), Hall discloses a rechargeable battery [Fig. 4, 11] which includes a plurality of connected cells [col. 3 lines 35-44], each of which includes an overcurrent protecting element connected to the cell in series [Fig. 3, switch Sc, in combination with the 5-cell charging configuration shown] comprising: a pair of first electrodes configured to extract electric power from the battery [col. 3 lines 49-55; Fig. 3]; and a pair of second electrodes which is different from said pair of first electrodes and is configured to charge and discharge each of said plurality of cells individually [col. 3 lines 5-12; Fig. 3] through the overcurrent protecting element [col. 3 lines 20-25]; and a switch [Fig. 3, Sb] configured to series connect said plurality of cells without the overcurrent protecting elements [switch Sc and the 5-cell configuration is used to solve the issues associated with high current charging- col. 3 lines 20-44; note that in the "discharge configuration" of Fig. 3 that switch Sc and the 5-cell configuration is *not used*] when the battery is not attached [Fig. 3, with SX1 open the battery is not electrically attached to DC-DC supply 12, and is in the "discharge configuration" shown]

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to a charger [Fig. 2, 15] such that electric power can be extracted from the series-connected plurality of cells through said pair of first electrodes [Fig. 3, series discharge configuration; col. 3 lines 62-67], and configured to electrically separate said plurality of cells from one another when the battery is attached to the charger [Fig. 3, with SX1 closed the battery is electrically attached to DC-DC supply 12 and is in the “charge configuration” shown] such that each of said plurality of cells can be charged individually by the charger through said pair of second electrodes [Fig. 3, “charge configuration”; col. 3 lines 5-12; col. 4 lines 57-62].

With respect to claim 12 (Previously Presented), Hall discloses that the battery is a battery pack in which said plurality of cells are assembled [Fig. 3, 11; col. 4 lines 47-60].

Response to Arguments

Applicant's arguments filed 3/9/2009 have been fully considered but they are not persuasive. Applicant's arguments with respect to the amended claims are addressed in the action above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RICHARD V. MURALIDAR whose telephone number is (571)272-8933. The examiner can normally be reached on 9:00-5:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Akm E. Ullah can be reached on 571-272-2361. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Richard V Muralidar/
Examiner, Art Unit 2838

/Akm Enayet Ullah/
Supervisory Patent Examiner, Art Unit
2838